

**METHODS AND SYSTEMS FOR DETECTING
MHC CLASS I AND CLASS II BINDING PEPTIDES**

Abstract of the Disclosure

The invention is based on the discovery that MHC class I and class II monomers immobilized to a solid surface are still capable of forming complexes with suitable MHC-binding peptides. Methods for detecting peptide binding to HLA monomers, and methods for measuring the relative degree of binding between two MHC-binding peptides as well as a method of measuring the rate of dissociation of peptides from MHC complexes are provided. The present invention also provides systems and kits useful for conducting the methods of the invention.